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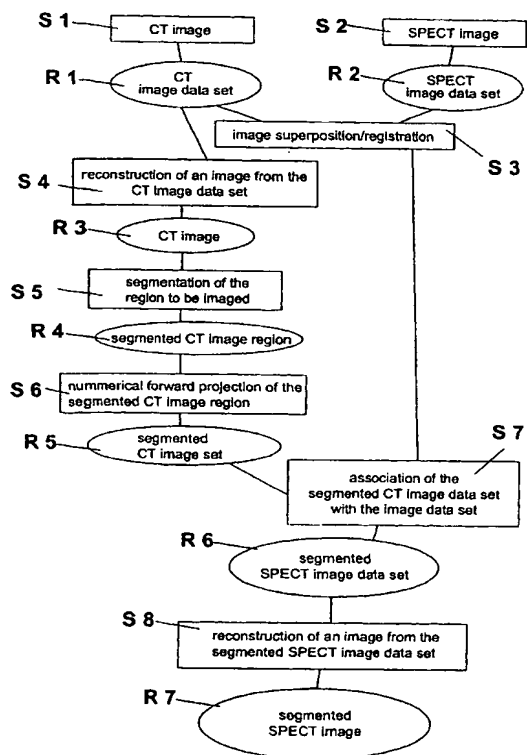
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(54) Title: **ORGAN-SPECIFIC BACKPROJECTION**



(57) Abstract: The invention relates to a method for the selective imaging of body structures, in which method - a first image data set is acquired by means of a first tomography method, - a second image data set is acquired by means of a second tomography method which has a resolution which is higher than that of the first method, the image data of the first and the second image data set coinciding at least partly in space, - an image is reconstructed from the first image data set, and - the image data to be imaged is selected from the first image data set by means of the second image data set. In order to achieve a higher imaging quality while using a low-resolution tomography method, in accordance with the invention it is proposed that for the image reconstruction from the first image data set - first at least one image region to be imaged is selected from the second image data set, and - subsequently the image reconstruction is calculated from the image data of the first image data set which are situated in the selected image region.

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